

ADVANCE ADAPTERS INC.

P.O. Box 247, 4320 Aerotech Center Way

Paso Robles, CA 93447

Telephone: (800) 350-2223 Fax: (805) 238-4201

P/N: 712570

PAGE 1 OF 6

Page Rev. Date: 02-10-09

BELLHOUSING FOR JEEP 4.0 HIGH OUTPUT 6 CYLINDER ENG. TO GM SM420 TRUCK 4SP

KIT CONSISTS OF:

No.	Qty	Part No.	Description
1.	1	712570-BLK	BELLHOUSING (<i>Transmission index diameter 4.686"</i>)
2.	1	716156GM	PILOT BUSHING W/ .590" I.D.
3.	1	716109	3/4" SOFT PLUG
4.	1	716176	CLUTCH RELEASE ARM
5.	1	716180	BALL PIVOT
6.	2	716330	SPECIAL BOLTS FOR FLYWHEEL SENSOR
7.	1	716332	CLUTCH ARM BOOT (<i>see NOTE 1 below</i>)
8.	2	723134	H.H.C.S. 5/16"-18 x 1-1/4" LG. (<i>Slave Cylinder</i>)
9.	6	724303	7/16" LOCK WASHERS
10.	4	724328	H.H.C.S. 7/16"-14 x 1-1/4" LG. (<i>Transmission</i>)
11.	1	JP001	JEEP INSTRUCTION MANUAL

NOTE 1: The throw out arm boot provided in this bellhousing kit was designed for a Jeep throw out arm. The arm provided in this kit is a Chevrolet arm. The boot may need to be modified for the correct arm location in the boot.

NOTE 2: The 4.0L blocks replacing a manual transmission used a 2 piece pilot bushing. Both pieces must be removed, the bearing and the sleeve. If these pieces are not removed, the new brass pilot bushing will not fit. We do not offer a smaller pilot bushing to fit the reducer sleeve. On 4.0L that were originally mated to a automatic the new pilot bushing will fit without any modifications.

NOTE 3: When using this bellhousing with a SM420, you will be required to drill out the two lower holes in the new bellhousing and use your existing bolts.

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PAGE 2 OF 6

Page Rev. Date: 07-16-13

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INSTALLATION INSTRUCTIONS:

Depending on the year of the vehicle that you are dealing with, you will need to vary the clutch control requirements accordingly. The bellhousing that we manufacture will use a GM clutch release arm along with a GM clutch release bearing. Since you are using a GM transmission, the N1430 release bearing and GM clutch release arm will work perfectly without any modifications. The new GM clutch arm will have an internal snap ring to lock onto the ball pivot stud inside the new bellhousing. On Jeep vehicles that were originally equipped with a mechanical clutch control, you should not have any problem adapting your original clutch linkage to the new clutch arm. On Jeep vehicles that were previously equipped with a hydraulic slave cylinder such as 1987-2005 and 1980-1986 four cylinders, you will need to use a Jeep slave cylinder that was used in the 1980-1983 Iron Duke four cylinder Jeep vehicles. We offer this Jeep clutch control slave cylinder kit as Part No. 716331. This new assembly will include all the necessary parts to mount to the new bellhousing.

The bellhousing is a direct duplicate of the original AMC stock bellhousing. The flywheel sensor, dowel pin holes and dust cover mounting holes are all in the original location. The original dust cover or block plate must be retained for use with the Advance Adapter bellhousing. This plate is normally already on the engine block. The flywheel sensor must be installed onto the new bellhousing using the original bolts or new bolts that we have supplied. These special bolts provide the necessary accuracy to mount the sensor in the appropriate location.

Your new SM420 transmission will require a new pilot bushing for the engine crank and possibly a new clutch disc. The SM420 will require a Chevy clutch disc with a 1-1/8"-10 spline size Centerforce No. 384193. It is advisable that you check the input shaft tip engagement into the new pilot bearing after installation. **DO NOT FORCE THE TRANSMISSION INTO POSITION.** The flywheel must be 1" thick. We have seen some flywheels up to 1.5" thick, which can cause interference problems. This 1" measurement should be taken from the crank flange to the clutch disc surface. This bellhousing also requires the use of a diaphragm pressure plate. Most Borg & Beck 3 finger pressure plates will not work.

Prior to assembling the bellhousing onto the engine, you will need to install the clutch ball pivot. We have provided two (2) different locations depending on the year of the vehicle that the bellhousing is being installed into. The upper location will be for Wrangler hydraulic clutch controls, while of the lower location will be for mechanical clutch type controls. Refer to **Page 6** for additional information.

CAUTION: *On some of the early installations, we have encountered an interference problem between the clutch pressure plate and clutch release arm. The solution is to grind the necessary clearance on the inside of the bellhousing and modify the release lever approximately 1/16". It will be necessary for your to check the clutch clearance inside the bellhousing prior to transmission assembly. This problem has only occurred with aftermarket clutch assemblies or thicker than normal flywheels.*

SM420 AND SM465 SHIFT TOWER CLEARANCES:

The new bellhousing will allow for the Chevy transmission to bolt directly against the face. There are a few transmissions that have the top shifter cover over lapping the face of the transmission. If your transmission has this slight over lap, it will be necessary to grind a small relief on either the top shifter or bellhousing area.

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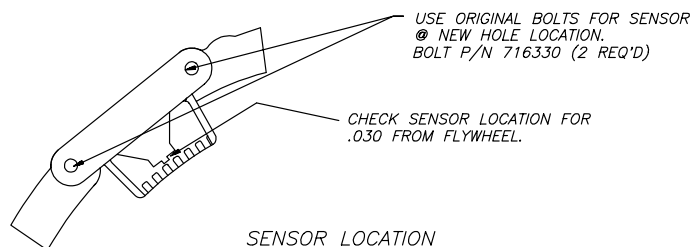
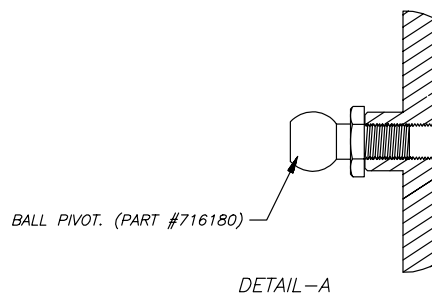
PAGE 4 OF 6

Page Rev. Date: 10-17-07

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Note:

2005 & Newer 4.0L engines use a new location and style of crank position sensor. Shown in photo below is the newer CPS location. If your engine is pre-2005, please plug this hole with the 3/4" soft plug that has been provided. Plug will need to be pressed or tapped in using a dowel and soft hammer.



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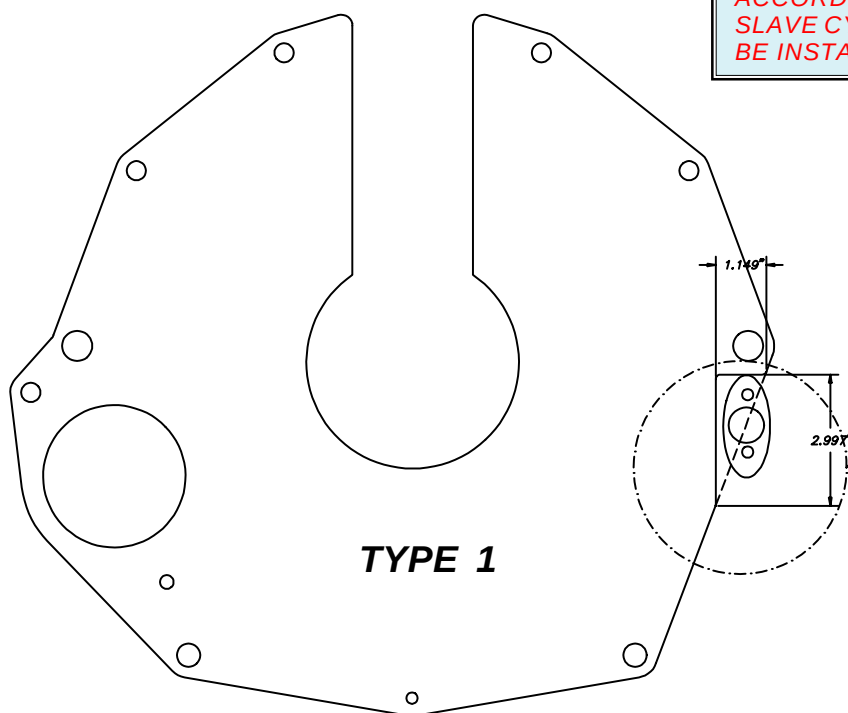
PAGE 5 OF 6

Page Rev. Date: 08-16-94

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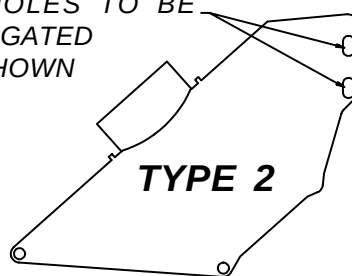
***NOTE:**

THE LOWER DUST COVER MUST BE MODIFIED ACCORDINGLY BEFORE INSTALLATION OF SLAVE CYLINDER. SLAVE CYLINDER SHOULD BE INSTALLED TO TOP OF DUST COVER.



THERE ARE VARIOUS TYPES OF DUST COVERS FOR THE JEEP MOTORS. WHEN YOU HAVE FOUND OR ALREADY HAVE THE PROPER DUST COVER, YOU WILL NEED TO MODIFY IT ACCORDINGLY. CUT OUT THIS AREA FOR SLAVE CYLINDER CLEARANCE BEFORE ASSEMBLING THE BELLHOUSING TO THE MOTOR. FAILURE TO DO SO, WILL RESULT IN DISASSEMBLY OF BELLHOUSING TO MOTOR.

(2) HOLES TO BE
ELONGATED
AS SHOWN



LOWER SECTION OF TWO PIECE DUST COVER

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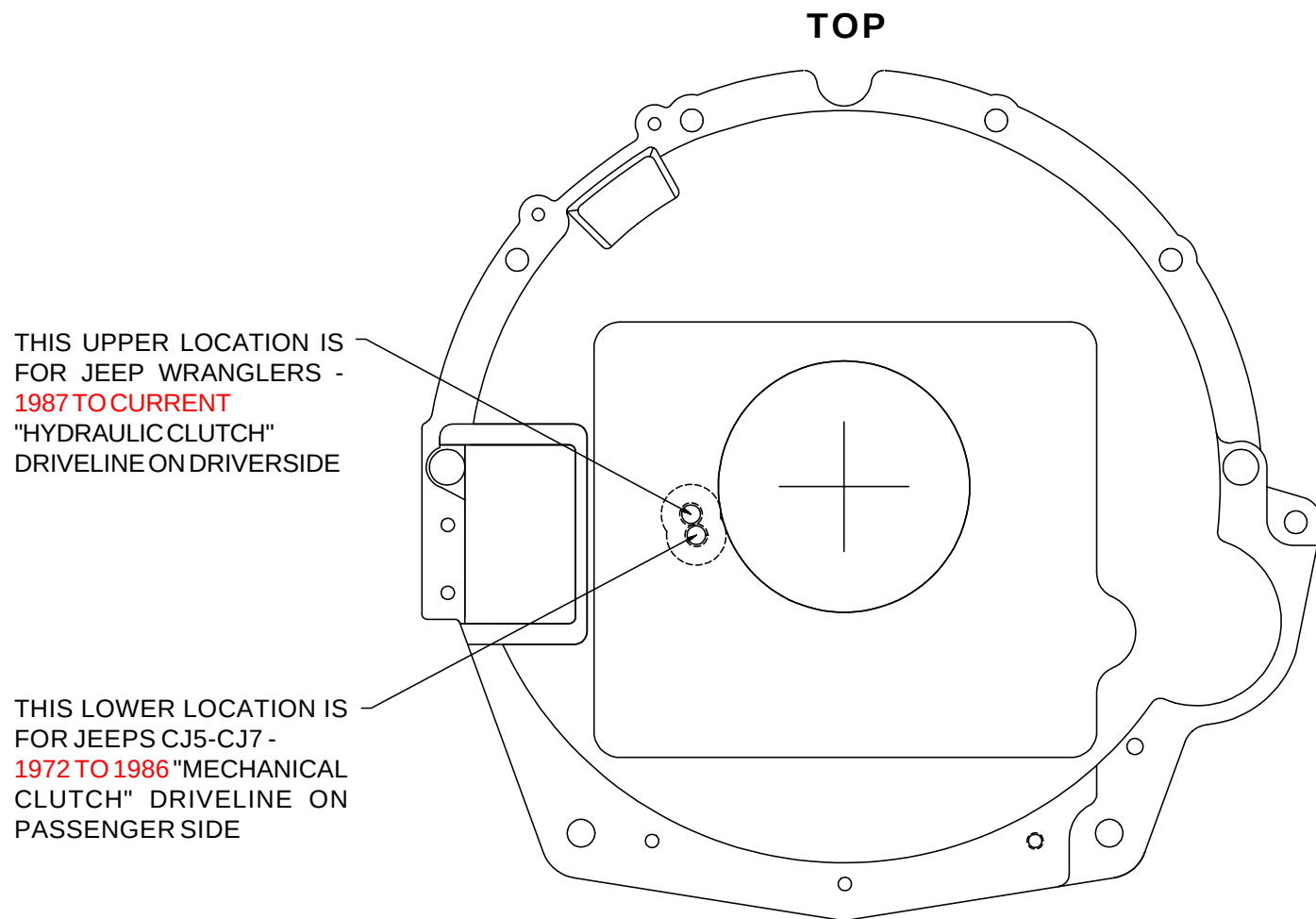
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P/N: 712570

PAGE 6 OF 6

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CAUTION: CRITICAL SELECTION FOR BALL STUD LOCATION.

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